

1067203060

Figure 1

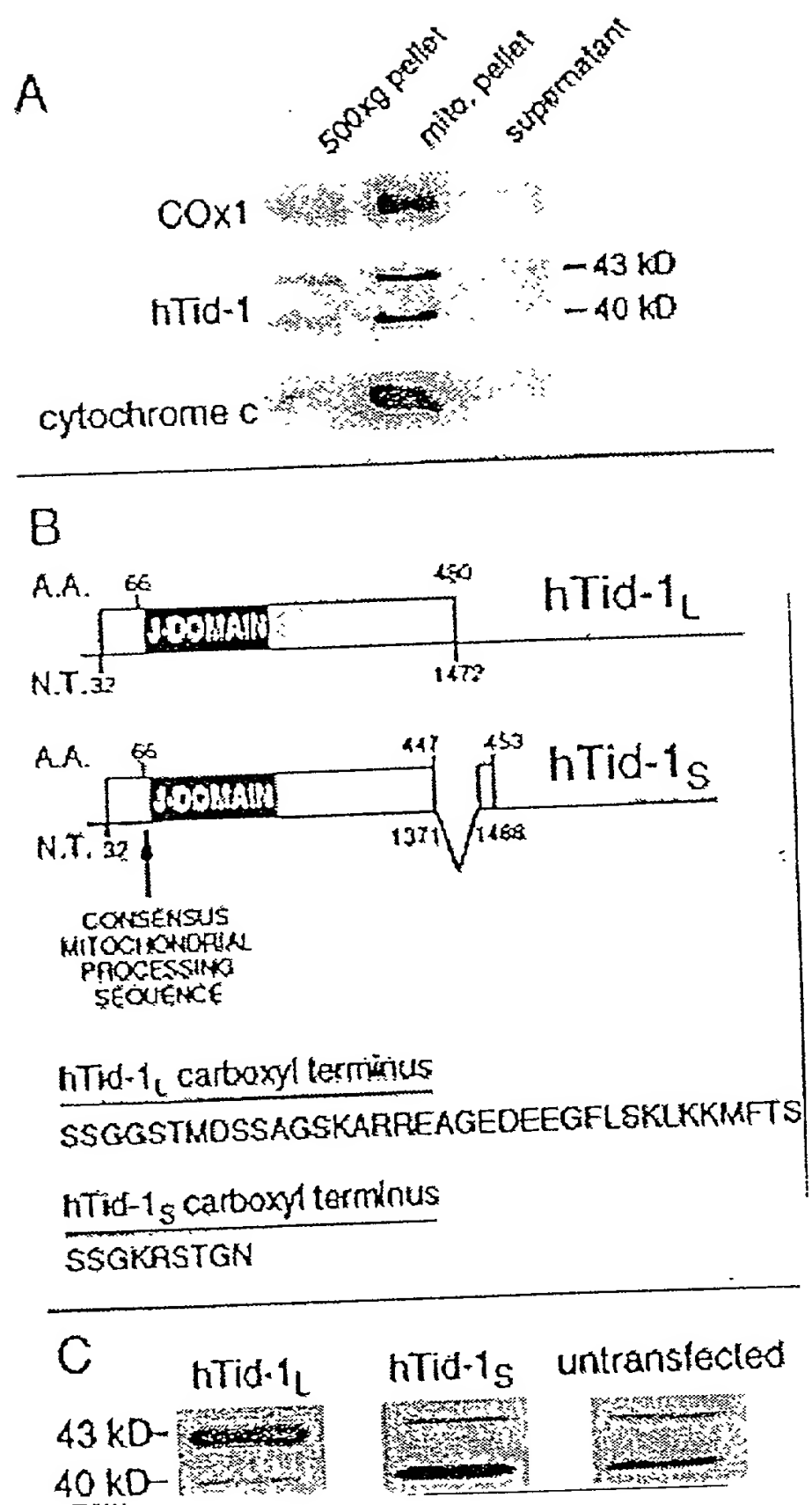


Figure 2

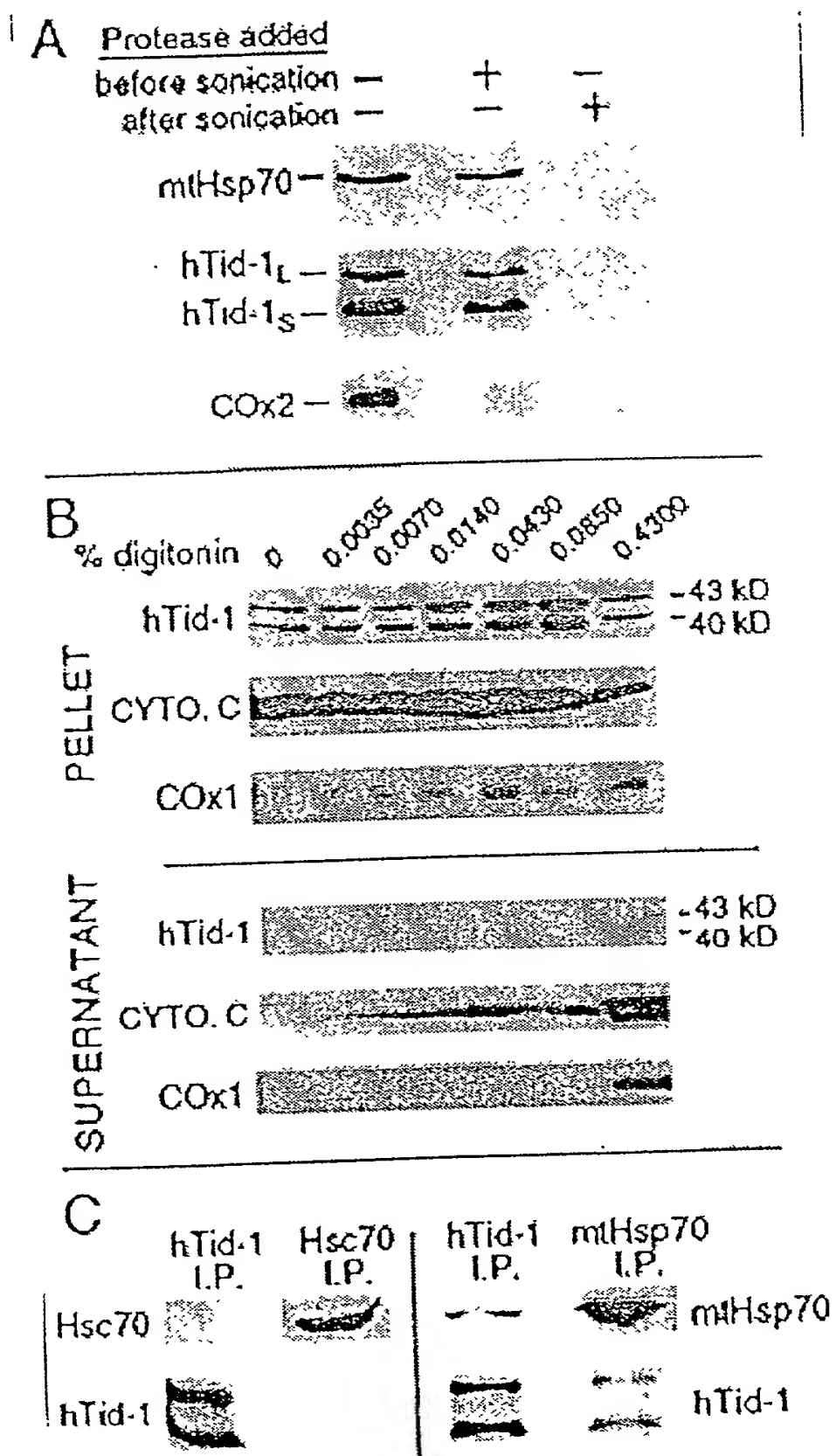


Figure 3

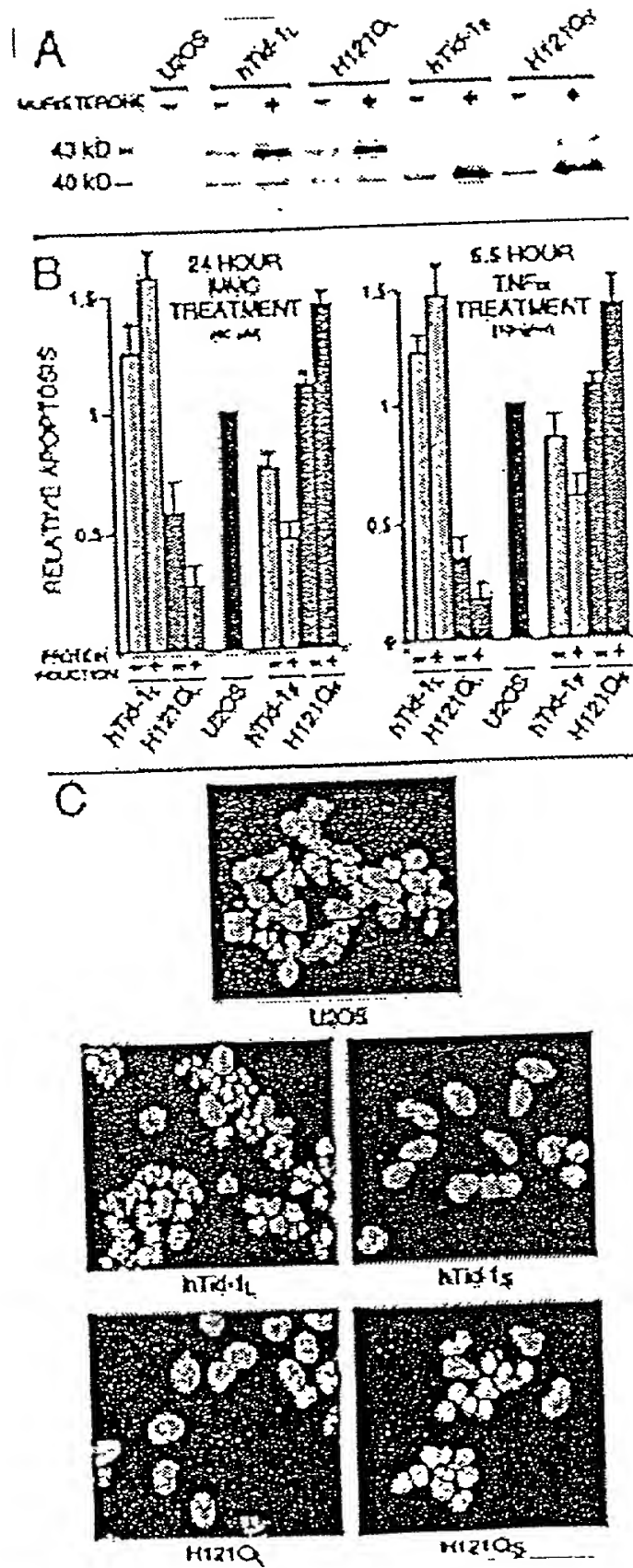


Figure 4

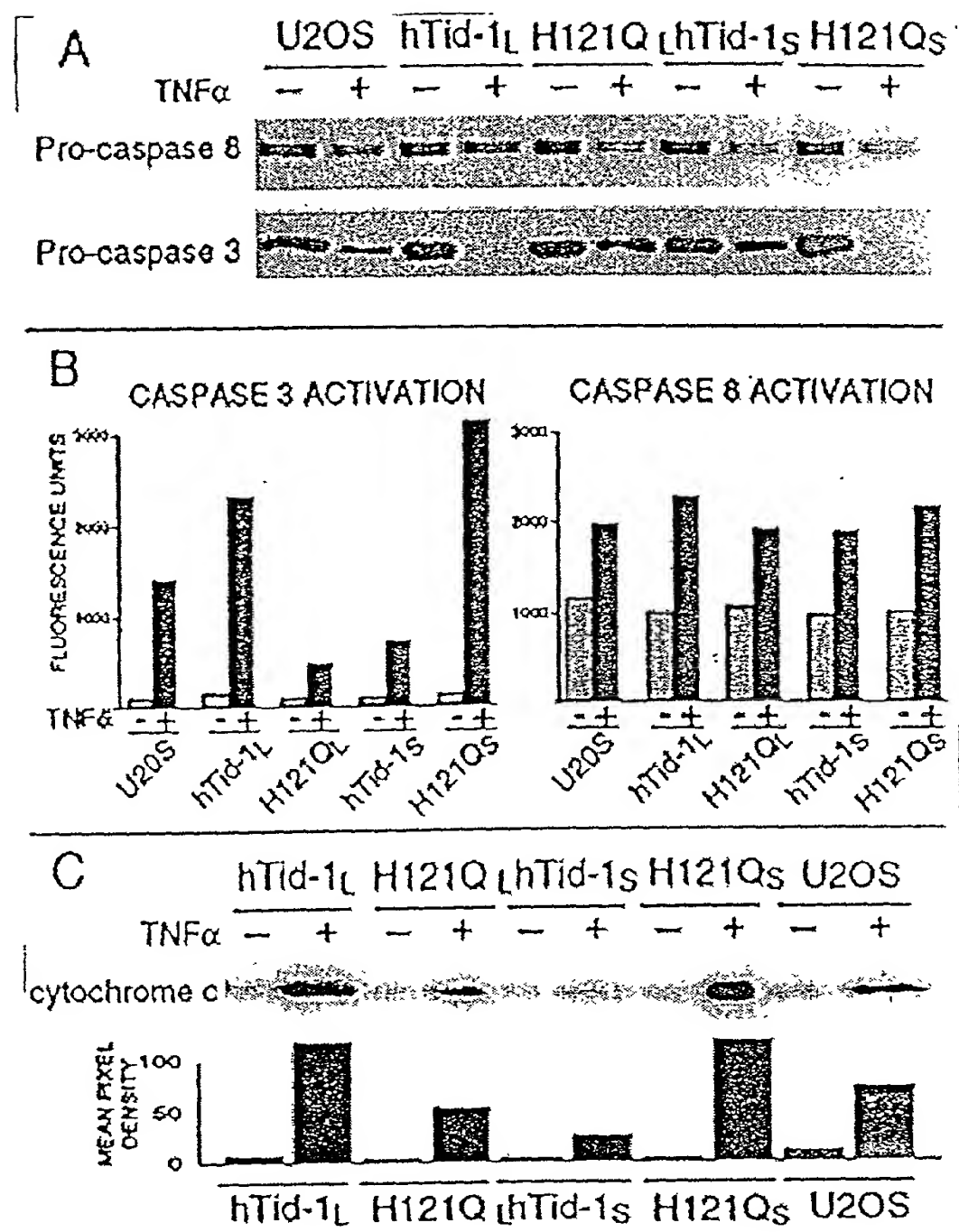


Figure 5

Nucleotide sequence of coding sequence encoding hTid1L:

ATGgctgcgcggtgctccacacgctgggtgctgggtggttgtggggaccccgcggtgcccgtatatcgggtagaggggc
ccggccgcccaggaggcggtgggtggggcatggctgagccgcaagctgagcgtccccgcctttgcgtcttccctgacct
cttgccgcccccgagcgctgctgacattgagacctgggtgtcagccttacaggaacaaaacataaccctttcatttgtact
gcctccttccacacgagtgcccccttggccaaagaagattattatcagatattaggagtgcctcgaaatgccagccagaa
agagatcaagaaagcctattatcagcttgccaagaagtatcacctgacacaaataaggatgatcccaaagccaaggaga
agttctcccagctggcagaagcctatgagggttttgagtgatgagggtgaagaggaagcagtaagatgcctacggctctgca
ggcttcgatacctggggccagcggtcccagcatagctactggaaggaggagggccactgtggaccccgaggagctgttcag
gaagatctttggcgagttctcatcctcttcatcttgagatttccagaccgtgtttgatcagcctcaggaatacttcatgg
agttgacattcaatcaagctgcaaaggggggtcaacaaggagttcacctgtaacatcatggacacgtgtgagcgtgcaac
ggcaaggggaacgagcccgccaccaaggtgcagcattgccactactgtggcggtccggcatggaaaccatcaacacagg
cccttttgtgatgcttccacgtgtaggagatgtggtggccgcggtccatcatcatatcgccctgtgtggtctgcaggg
gagcaggacaagccaagcagaaaaagcgagtgtgatccctgtgcctgcaggagtgcaggatggccagaccgtgaggatg
cctgtgggaaaaagggaattttcattacgttcagggtgcagaaaaagccctgtgttccggagggaaggcgagacatcca
ctccgacctctttatttctatagctcaggctcttcttgggggaacagccagagcccagggtgtacgagacgatcaacg
tgacgatccccctgggactcagacagaccagaagattcggtggtgggaaaggcatcccccgattaacagctacggc
tacggagaccactacatccacatcaagatacagagttccaaagaggctaacgagccggcagcagagcctgatcctgagcta
cgccgaggacgagacagatgtggaggggacgggtgaacggcgctcacctcaccagctctggtggcagcaccatggatagct
ccgcaggaagcaaggctaggcgtaggctggggaggacgaggagggttcctttccaaacttaagaaaatgtttacctca
TGA

Nucleotide sequence of coding sequence encoding hTid1S:

atggctgcGcggtgctccacacgctgggtgctgggtggttgtggggaccccgcggtgcccgtatatcgggtagaggggc
ccggccgcccaggaggcggtgggtggggcatggctgagccgcaagctgagcgtccccgcctttgcgtcttccctgacct
cttgccgcccccgagcgctgctgacattgagacctgggtgtcagccttacaggaacaaaacataaccctttcatttgtact
gcctccttccacacgagtgcccccttggccaaagaagattattatcagatattaggagtgcctcgaaatgccagccagaa
agagatcaagaaagcctattatcagcttgccaagaagtatcacctgacacaaataaggatgatcccaaagccaaggaga
agttctcccagctggcagaagcctatgagggttttgagtgatgagggtgaagaggaagcagtaagatgcctacggctctgca
ggcttcgatacctggggccagcggtcccagcatagctactggaaggaggagggccactgtggaccccgaggagctgttcag
gaagatctttggcgagttctcatcctcttcatcttgagatttccagaccgtgtttgatcagcctcaggaatacttcatgg
agttgacattcaatcaagctgcaaaggggggtcaacaaggagttcacctgtaacatcatggacacgtgtgagcgtgcaac
ggcaaggggaacgagcccgccaccaaggtgcagcattgccactactgtggcggtccggcatggaaaccatcaacacagg
cccttttgtgatgcttccacgtgtaggagatgtggtggccgcggtccatcatcatatcgccctgtgtggtctgcaggg
gagcaggacaagccaagcagaaaaagcgagtgtgatccctgtgcctgcaggagtgcaggatggccagaccgtgaggatg
cctgtgggaaaaagggaattttcattacgttcagggtgcagaaaaagccctgtgttccggagggaaggcgagacatcca
ctccgacctctttatttctatagctcaggctcttcttgggggaacagccagagcccagggtgtacgagacgatcaacg
tgacgatccccctgggactcagacagaccagaagattcggtggtgggaaaggcatcccccgattaacagctacggc
tacggagaccactacatccacatcaagatacagagttccaaagaggctaacgagccggcagcagagcctgatcctgagcta
cgccgaggacgagacagatgtggaggggacgggtgaacggcgctcacctcaccagctctggAAAAAGATCCACTGGAACT
AG

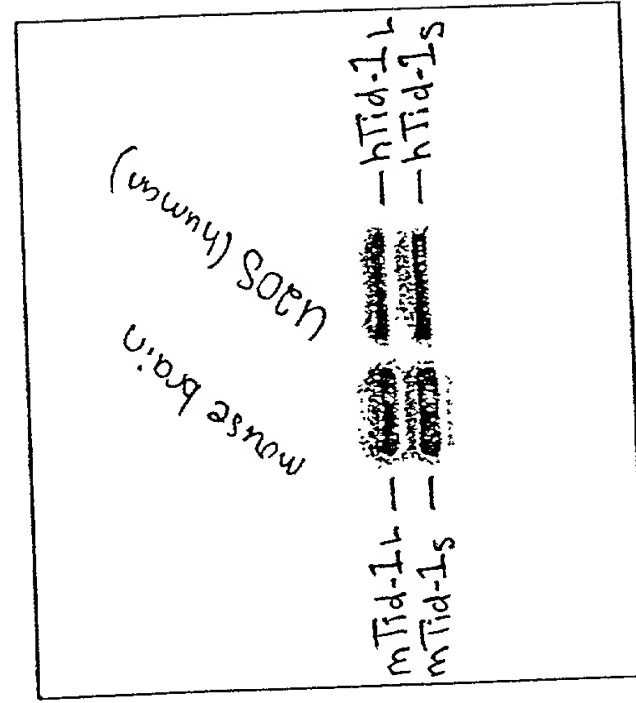
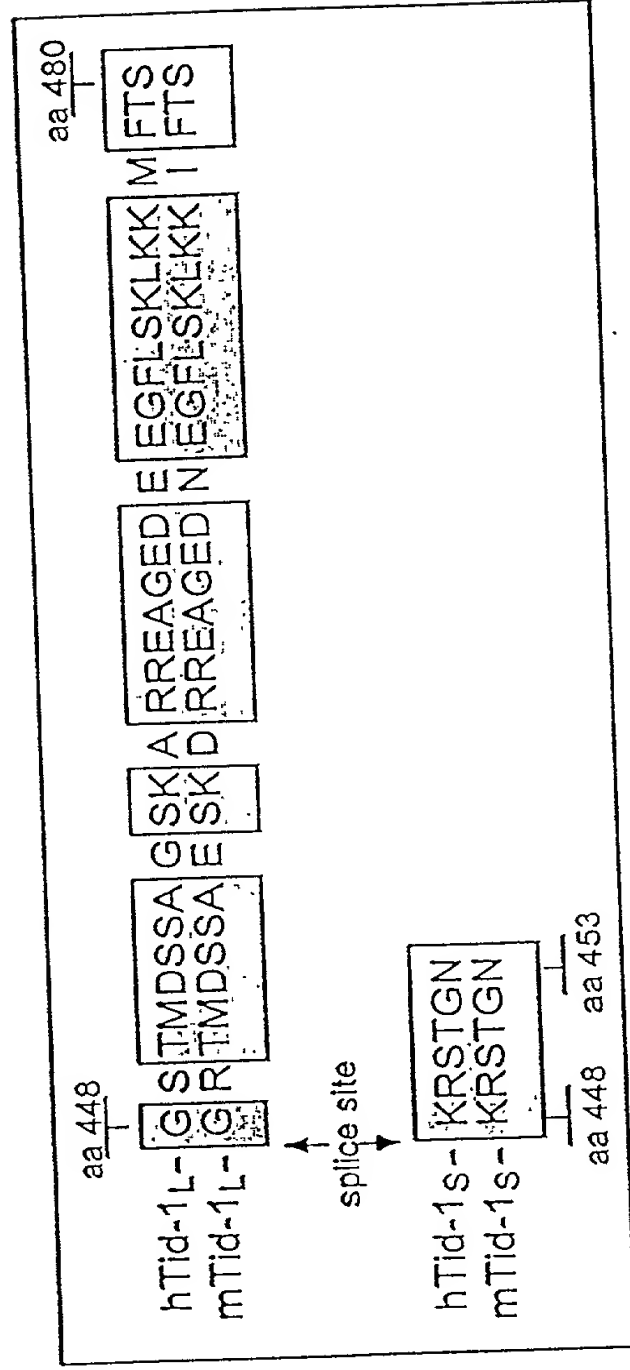


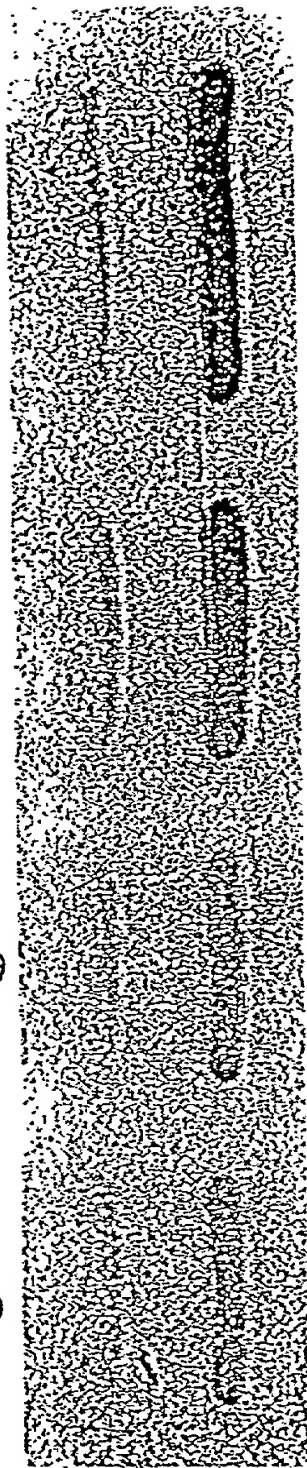
Figure 6

Figure 7A

hrs activation

0 6 24 48

hTid-1L—
hTid-1S—



actin

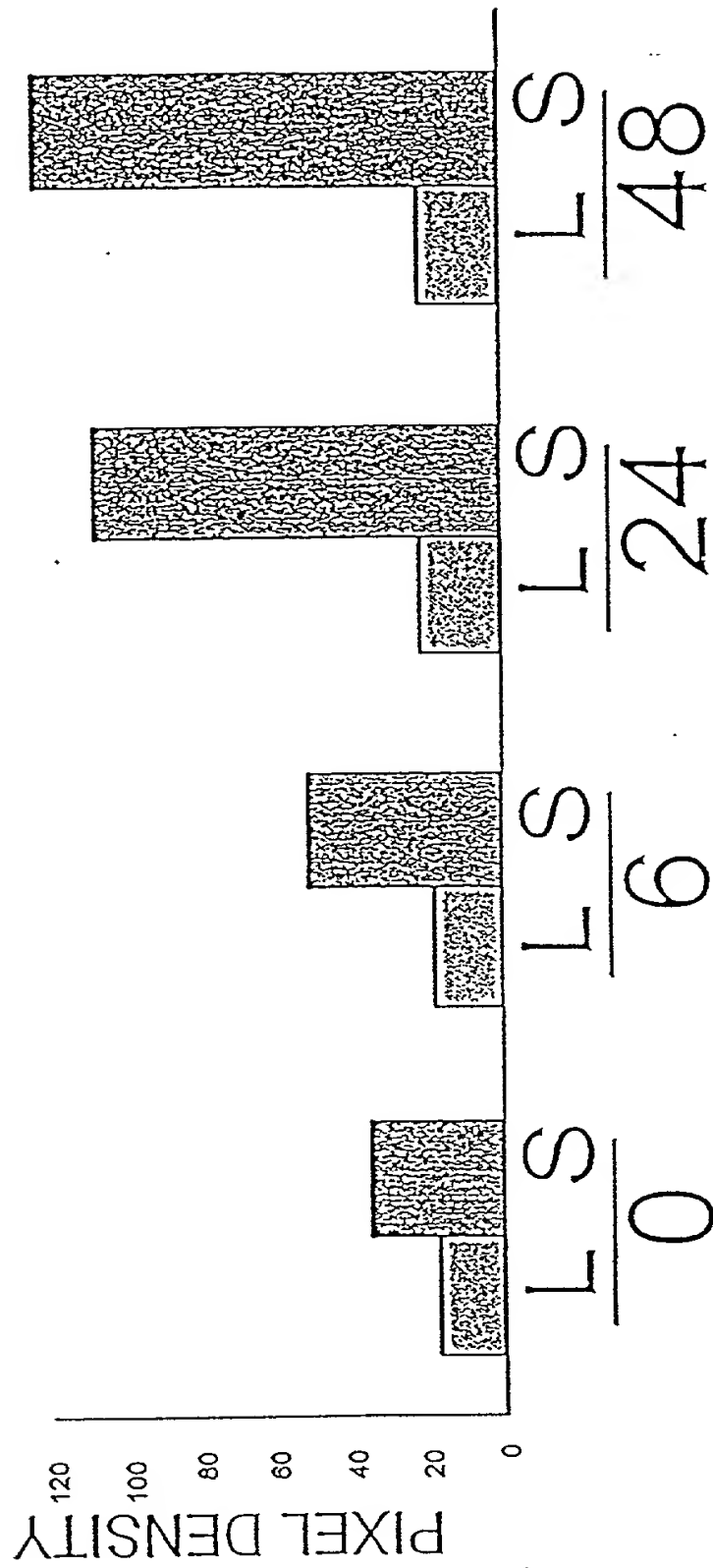


Figure 7A

B

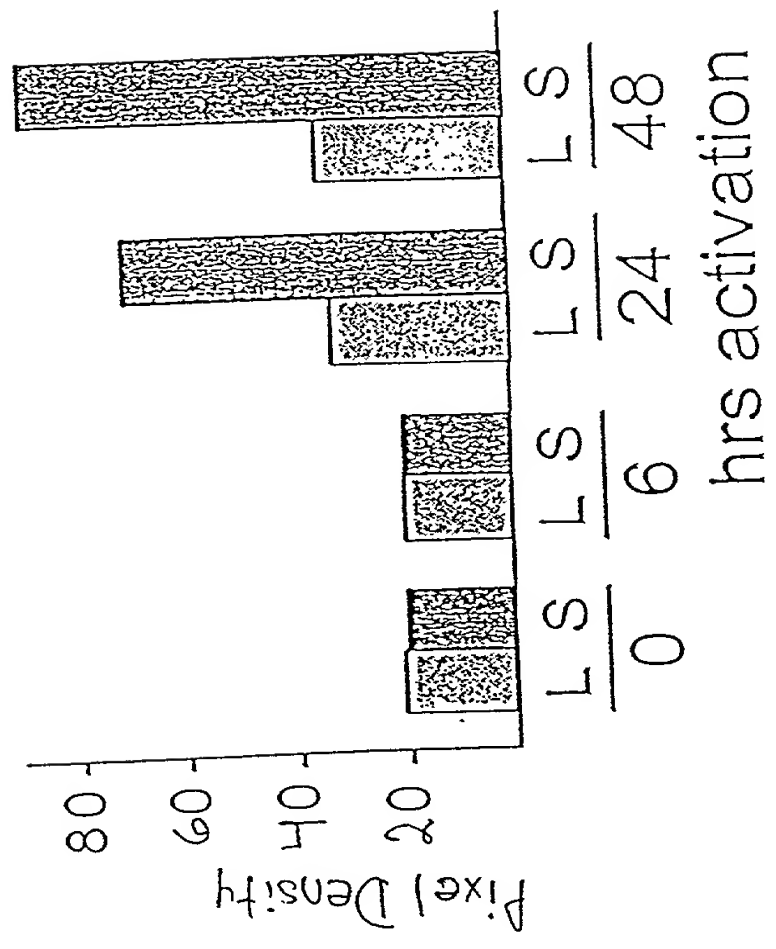
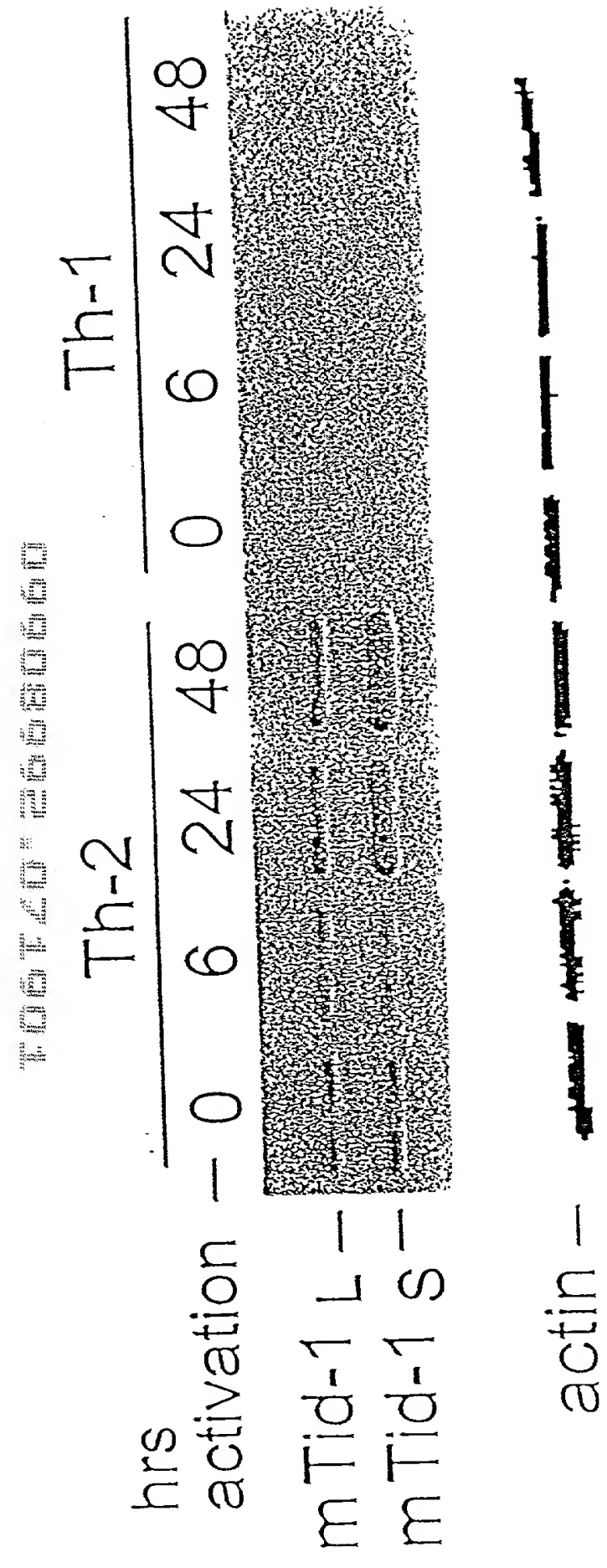


Figure 7B

C

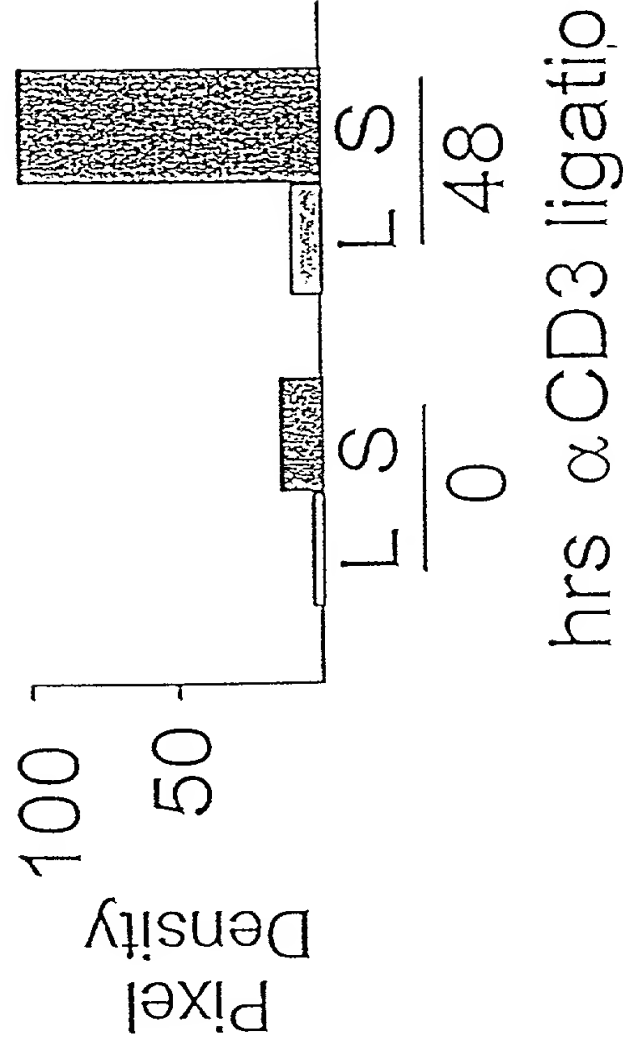
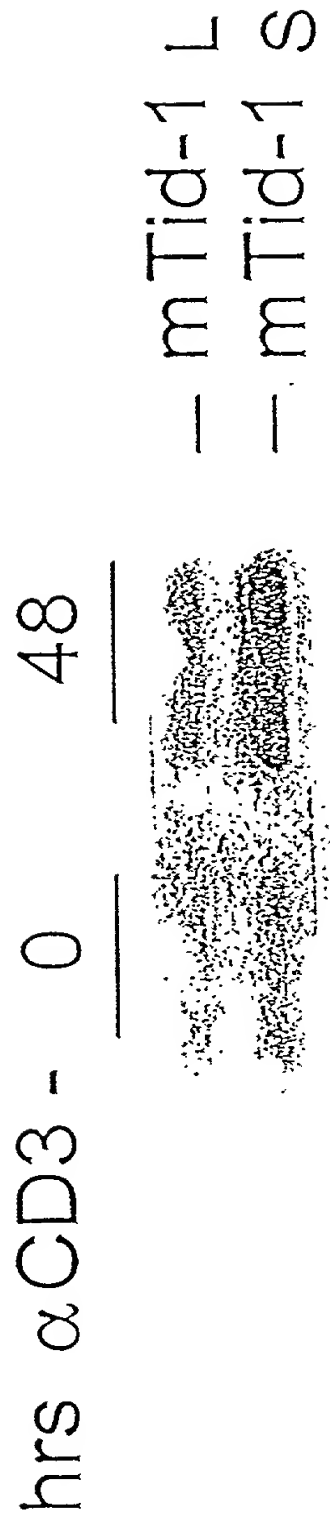


Figure 7C

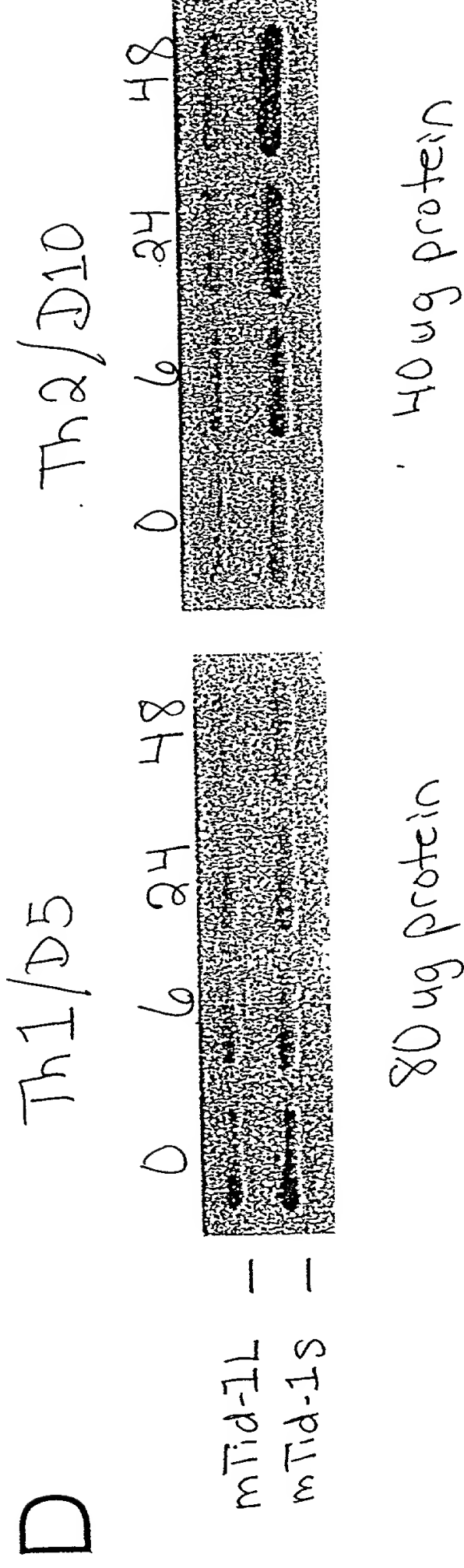
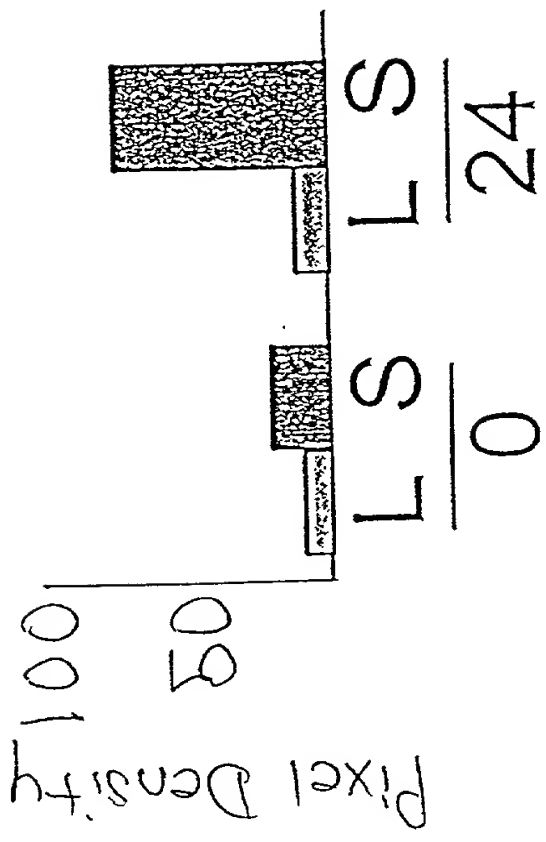
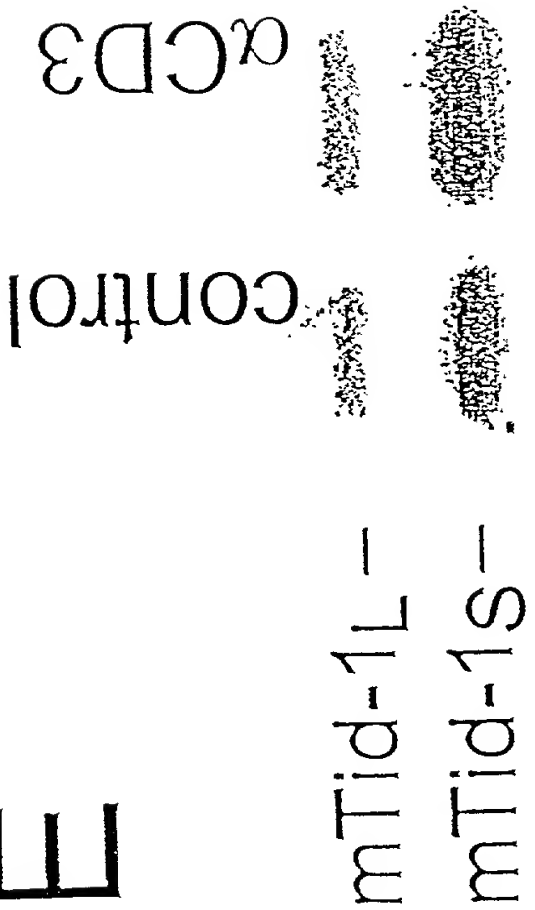


Figure 7D

T06T40*28680660

E



D0.10.11
primary Th2 cells

Figure 7E

F

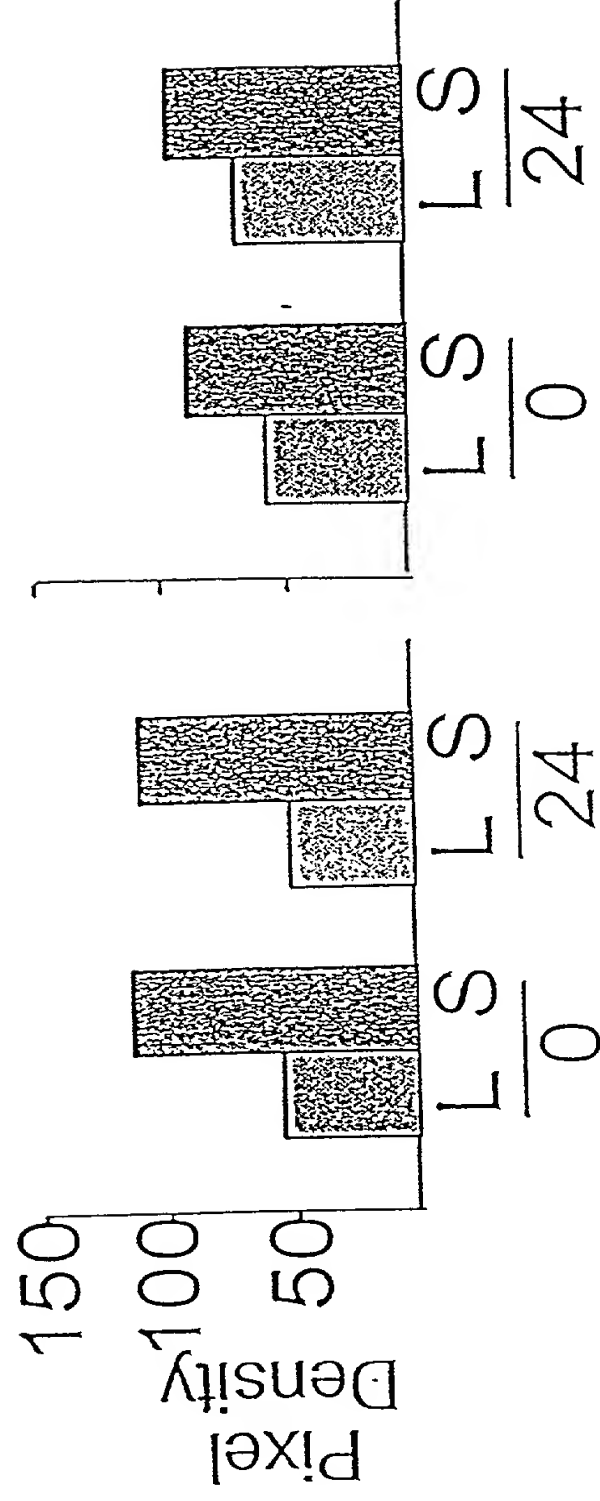
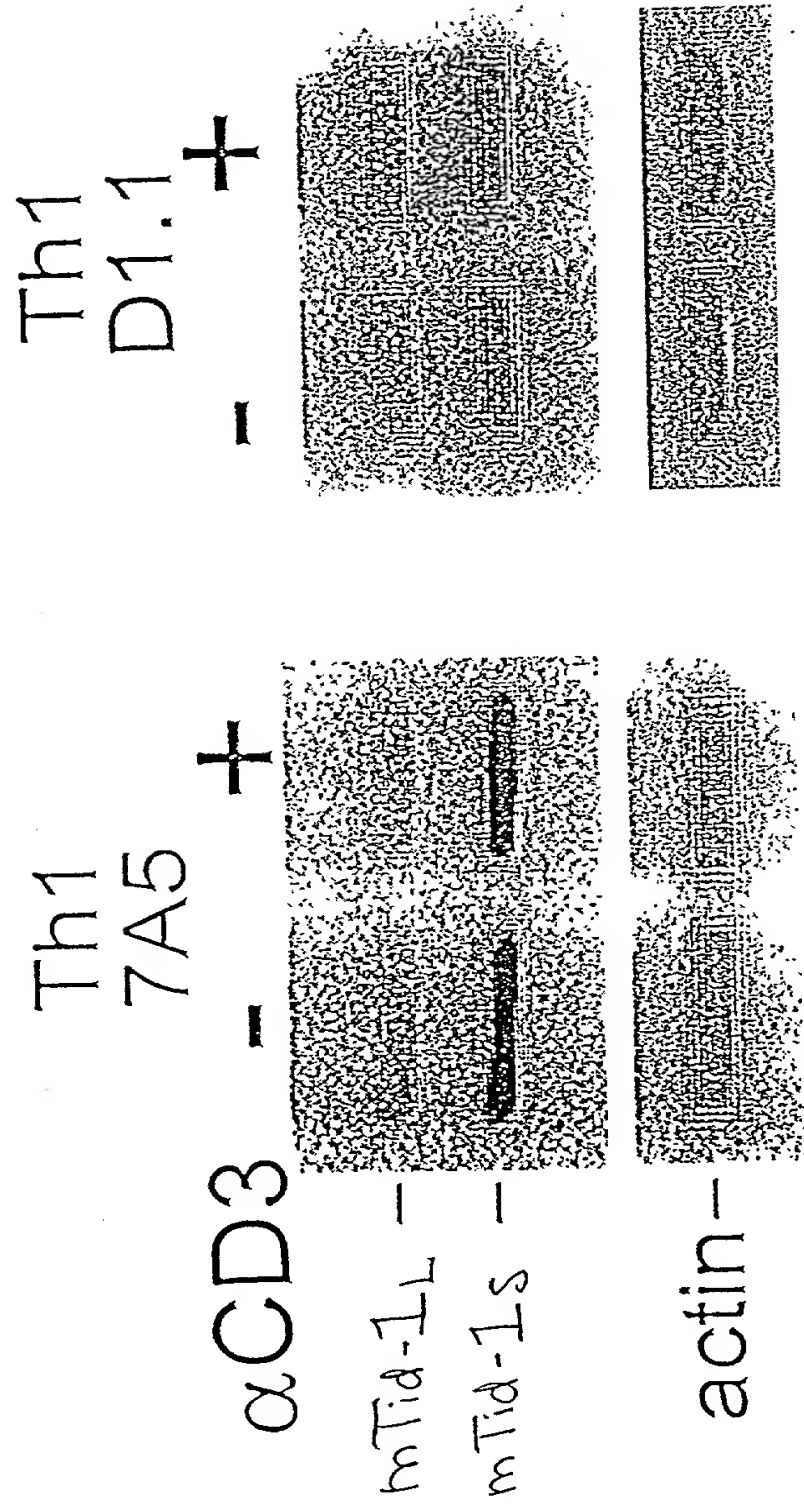


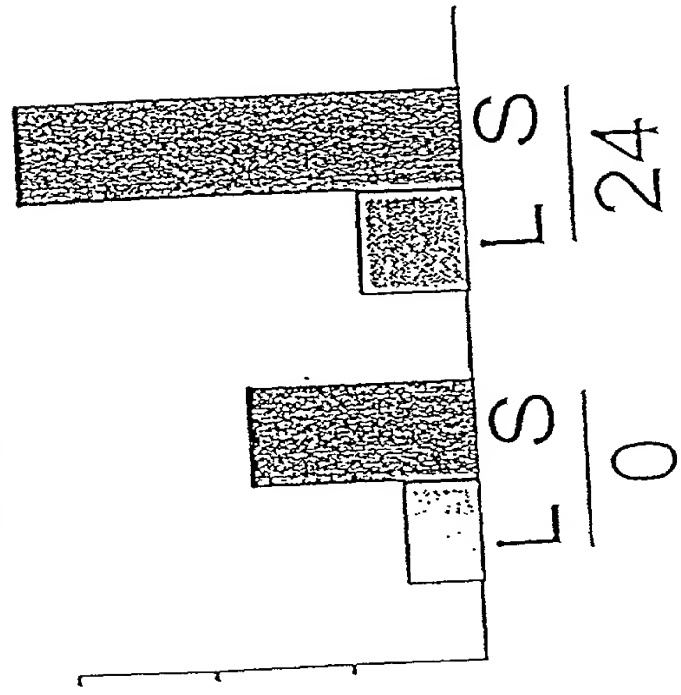
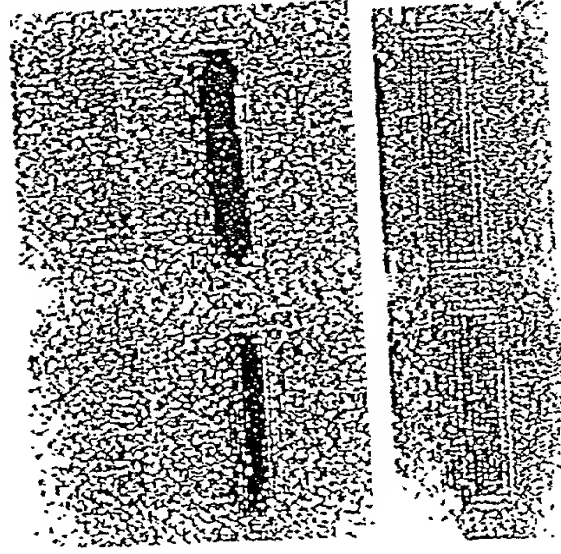
Figure 7F (part 1)

105720 2668060

F

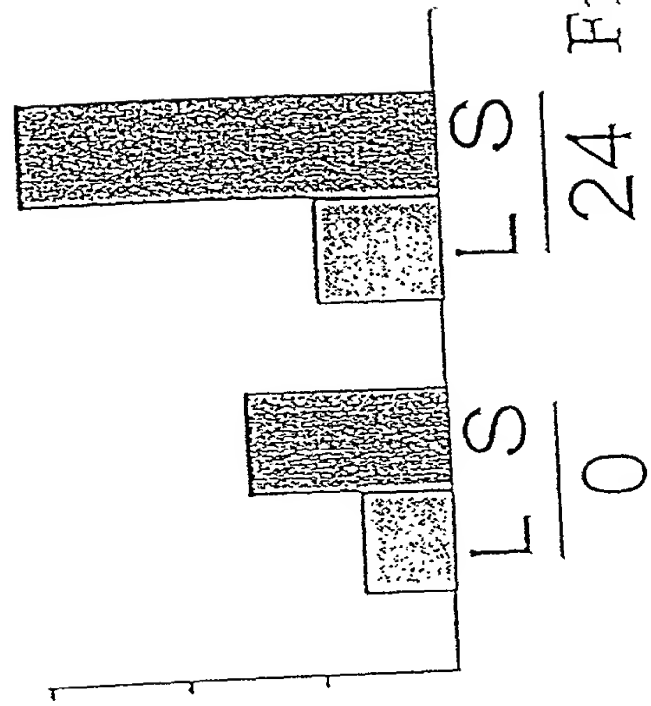
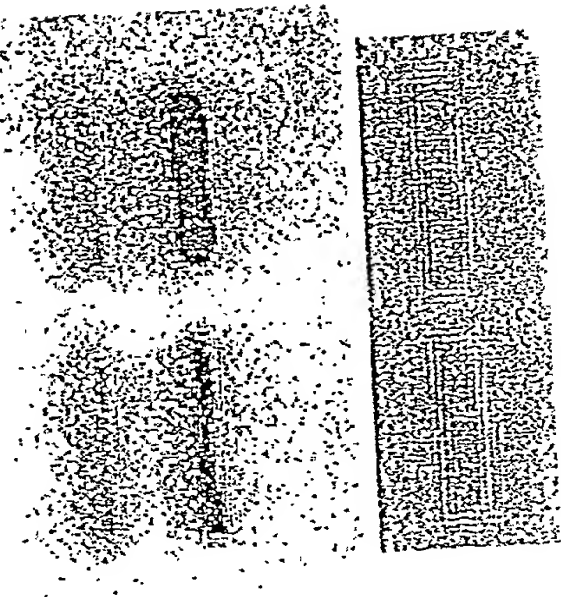
Th2
HA84A6

+



Th2
CDC 35

+



alphaCD3

- mTid-1L

- mTid-1S

- actin

24 Figure 7F (part 2)

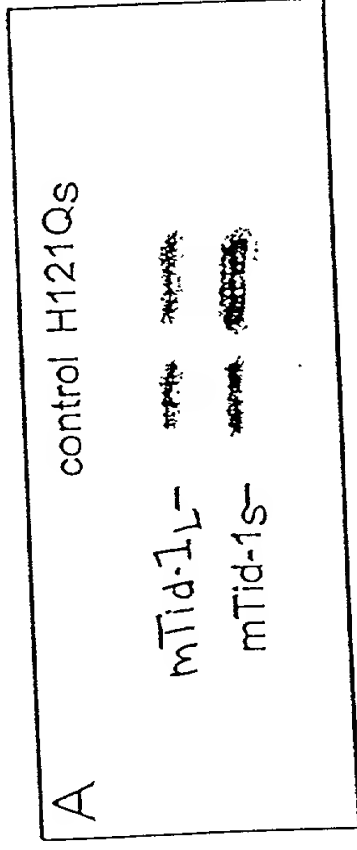
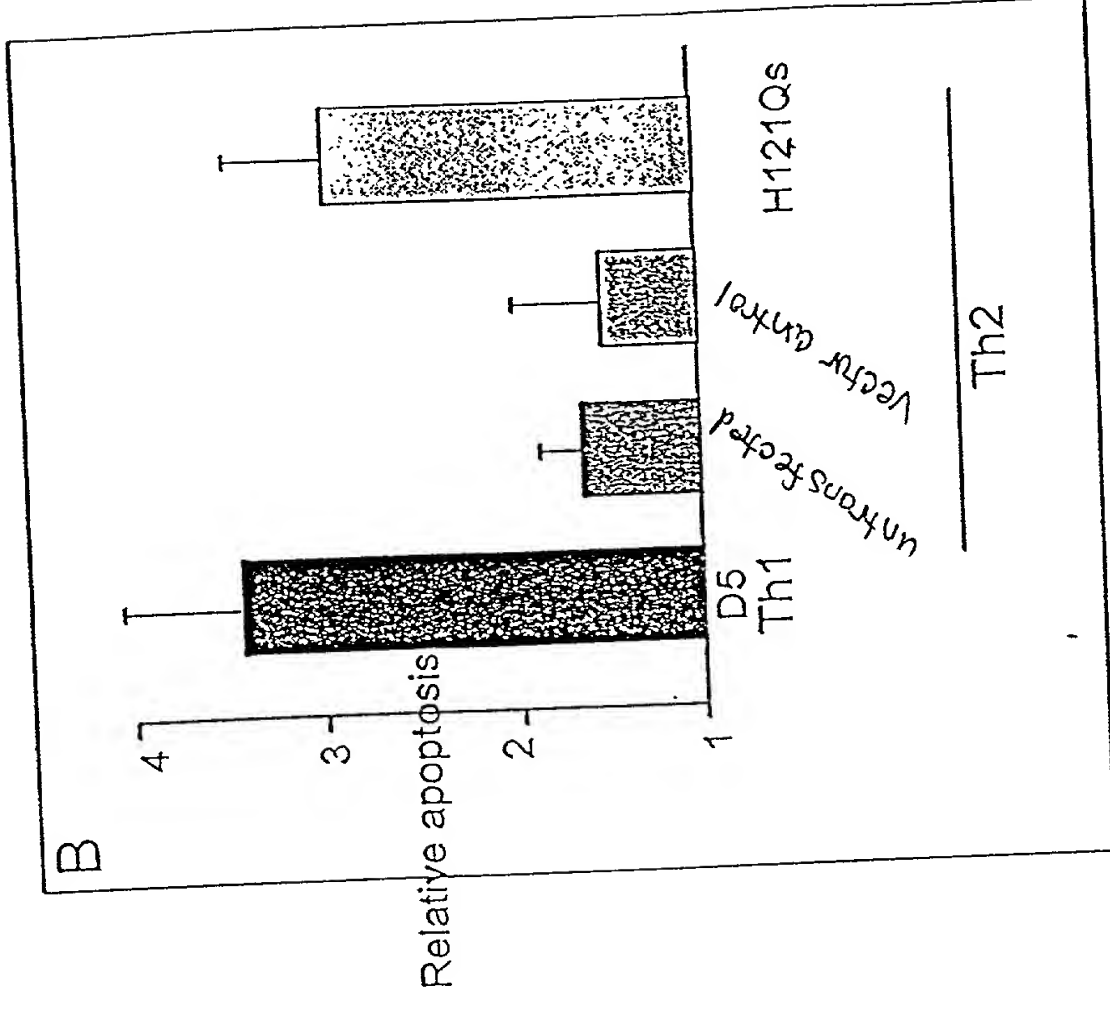


Figure 8

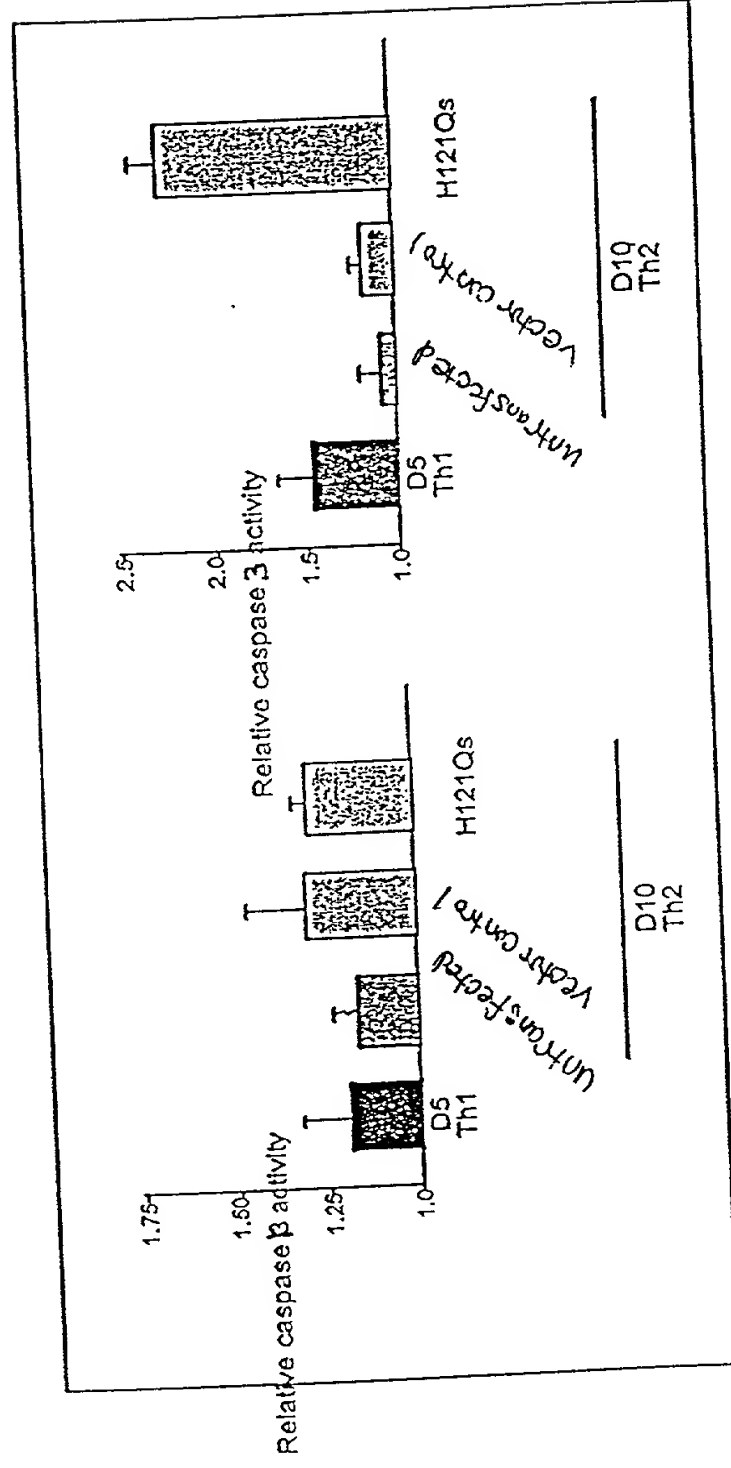


Figure .9

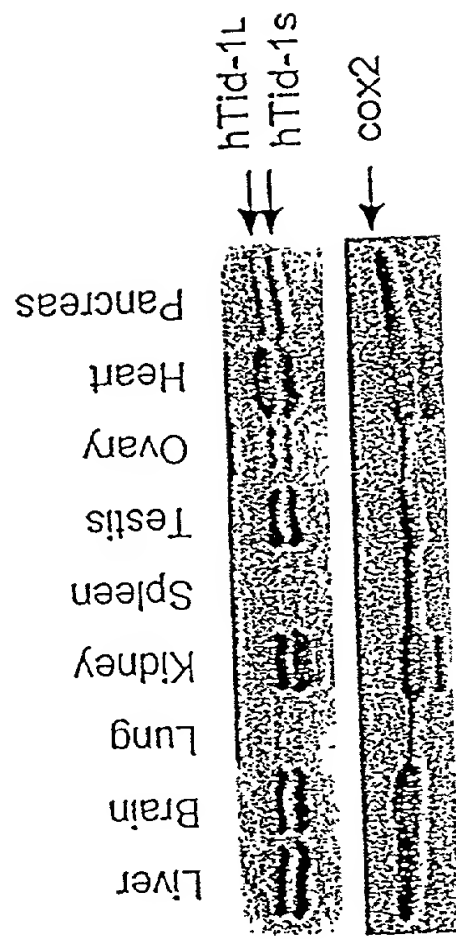
Figure 10

Amino acid sequence of mTid-1L:

MAAWCSPRWLRVAVGTPRLPAAAGRGVQQPQGGVVATSLCRKLCVSAFGLSMG
AHGPRALLTLRPGVRLTGTKSFPFVCTTSFHTSASLAKDDYYQILGVPRNASQKDI
KKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVKRKQYDAYGSAGF
DPGTSSSGQGYWRGGPSVDPEELFRKIFGEFSSSPFGDFQNVVXXXXXXXXXXXXXXXXX
XXXXXXXXKEFTVNIMDTCERC DGKGNEPGTKVQHCHYCGGSGMETINTGPFVMR
STCRRCGGRGSIITNPCVVCRGAGQAKQKKRVTIPVPAGVEDGQTVRMPVGKREIF
VTFRVQKSPVFRRTCADIHSDLFISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKI
RLTGKGIPRINSYGYGDHYIHIKIRVPKRLSSRQQNLILSYAEDETDVEGTVNGVTH
TSTGGRTMDSSAESKDRREAGEDNEGFLSKLKKIFTS

Amino acid sequence of mTid-1S:

MAAWCSPRWLRVAVGTPRLPAAAGRGVQQPQGGVVATSLCRKLCVSAFGLSMG
AHGPRALLTLRPGVRLTGTKSFPFVCTTSFHTSASLAKDDYYQILGVPRNASQKDI
KKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVKRKQYDAYGSAGF
DPGTSSSGQGYWRGGPSVDPEELFRKIFGEFSSSPFGDFQNVVXXXXXXXXXXXXXXXXX
XXXXXXXXKEFTVNIMDTCERC DGKGNEPGTKVQHCHYCGGSGMETINTGPFVMR
STCRRCGGRGSIITNPCVVCRGAGQAKQKKRVTIPVPAGVEDGQTVRMPVGKREIF
VTFRVQKSPVFRRTCADIHSDLFISIAQAILGGTAKAQGLYETINVTIPAGIQTDQKI
RLTGKGIPRINSYGYGDHYIHIKIRVPKRLSSRQQNLILSYAEDETDVEGTVNGVTH
TSTGKRSTGN



Expression of the TID1 proteins in different tissues -
cox2 is a marker for mitochondria

Figure 11